



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

27890 7590 03/27/2008

STEPTOE & JOHNSON LLP
1330 CONNECTICUT AVENUE, N.W.
WASHINGTON, DC 20036

EXAMINER

MILLER, BRANDON J

ART UNIT

PAPER NUMBER

2617

DATE MAILED: 03/27/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

09/833,593

04/13/2001

Martin Philip Usher

11696. 0059

5641

TITLE OF INVENTION: CELLULAR RADIO SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/27/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

27890 7590 03/27/2008

STEPTOE & JOHNSON LLP
1330 CONNECTICUT AVENUE, N.W.
WASHINGTON, DC 20036

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/833,593	04/13/2001	Martin Philip Usher	11696. 0059	5641

TITLE OF INVENTION: CELLULAR RADIO SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/27/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
MILLER, BRANDON J	2617	455-417000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 _____
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 _____
- 3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies _____

4b. Payment of Fee(s); (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/833,593	04/13/2001	Martin Philip Usher	11696. 0059	5641
27890	7590	03/27/2008	EXAMINER	
STEPTOE & JOHNSON LLP 1330 CONNECTICUT AVENUE, N.W. WASHINGTON, DC 20036			MILLER, BRANDON J	
			ART UNIT	PAPER NUMBER
			2617	
DATE MAILED: 03/27/2008				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 335 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 335 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.

09/833,593

Applicant(s)

USHER ET AL.

Examiner

Art Unit

BRANDON J. MILLER

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/18/2007.
2. ☒ The allowed claim(s) is/are 13-24 and 37-48.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date ____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other ____. |

/George Eng/
Supervisory Patent Examiner, Art Unit 2617

DETAILED ACTION

Response to Amendment

EXAMINER'S AMENDMENT

I. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Amend claim 19 to read:

19. (Amended) A method for routing incoming cellular telephone traffic through a land-based host network to a cellular device user aboard an aircraft, the cellular device user having an associated cellular telephone number, comprising:

receiving, at the host network, a request to register the presence of the cellular device user aboard the aircraft, the request including at least a temporary identification code representing a cellular telephone aboard the aircraft;

the host network advising the cellular device user's home network that the cellular device user is within the operating jurisdiction of the host network;

associating, at the host network, a primary divert on busy instruction with the cellular telephone number, the divert on busy instruction representing an instruction to divert an incoming call to a communication system on board the aircraft; and

considering a current operational state associated with the cellular telephone number as busy, regardless of an actual operational state of the cellular [device] telephone;

wherein, upon receipt of an incoming call to the cellular telephone number, the host forwards an incoming call to the communication system on board the aircraft consistent with the primary divert on busy instruction.

Amend claim 21 to read:

21. (Amended) The method of claim 19, wherein the communication system on board the aircraft is a communication device wirelessly coupled with the cellular [device] telephone aboard the aircraft.

Amend claim 24 to read:

24. (Amended) The method of claim 19, the cellular [device] telephone having at least one original divert on busy instruction prior to said associating a primary divert on busy instruction, the method further comprising:

receiving an incoming call for the cellular telephone number; and

diverting, in response to an actual state of the cellular telephone being busy, the incoming call consistent with the at least one original divert on busy instruction.

Amend claim 43 to read:

43. (Amended) A method for routing incoming telephone traffic through a land-based host network to a telephone device user aboard an aircraft, the telephone device user having an associated telephone number, comprising:

receiving, at the host network, a request to register the presence of the telephone device user aboard the aircraft, the request including at least a temporary identification code representing a telephone aboard the aircraft;

the host network advising the telephone device user's home network that the telephone device user is within the operating jurisdiction of the host network;

associating, at the host network, a primary divert on busy instruction with the telephone number, the divert on busy instruction representing an instruction to divert an incoming call to a communication system on board the aircraft; and

considering a current operational state associated with the telephone number as busy, regardless of an actual operational state of the [device] telephone;

wherein, upon receipt of an incoming call to the telephone number, the host forwards an incoming call to the communication system on board the aircraft consistent with the primary divert on busy instruction.

Amend claim 45 to read:

45. (Amended) The method of claim 43, wherein the communication system on board the aircraft is a communication device wirelessly coupled with the [device] telephone aboard the aircraft.

Amend claim 48 to read:

48. (Amended) The method of claim 43, the [device] telephone having at least one original divert on busy instruction prior to said associating a primary divert on busy instruction, the method further comprising:

receiving an incoming call for the cellular telephone number; and

diverting, in response to an actual state of the cellular telephone being busy, the incoming call consistent with the at least one original divert on busy instruction.

Allowable Subject Matter

II. The following is an examiner's statement of reasons for allowance:

Claim 13 recites a method for forwarding incoming cellular communications to an aircraft with a structure as defined in the specification (pages 1-18) including receiving a request to divert incoming calls for a cellular telephone number to a communication system on board an aircraft, the request including at least a temporary identification code representing a cellular telephone aboard the aircraft; associating a diversion instruction with the cellular telephone number, the diversion instruction representing an instruction to forward an incoming call for the cellular telephone number to the communications system aboard the aircraft; and considering a state of a cellular telephone associated with the cellular telephone number as busy, regardless of an actual state of the cellular telephone; wherein, an incoming telephone call to the cellular telephone number is forwarded, consistent with said considering and in accordance with the diversion instruction, to the communications system on board the aircraft. Applicant's independent claim 13 comprises a particular combination of elements, which is neither taught nor suggested by the prior art.

Claims 14-18 are allowable based on their dependence of independent claim 13.

Claim 19 recites a method for routing incoming cellular telephone traffic through a land-based host network to a cellular device user aboard an aircraft, the cellular device user having an

Art Unit: 2617

associated cellular telephone number, with a structure as defined in the specification (pages 1-18) including receiving, at the host network, a request to register the presence of the cellular device user aboard the aircraft, the request including at least a temporary identification code representing a cellular telephone aboard the aircraft; the host network advising the cellular device user's home network that the cellular device user is within the operating jurisdiction of the host network; associating, at the host network, a primary divert on busy instruction with the cellular telephone number, the divert on busy instruction representing an instruction to divert an incoming call to a communication system on board the aircraft; and considering a current operational state associated with the cellular telephone number as busy, regardless of an actual operational state of the cellular [device] telephone; wherein, upon receipt of an incoming call to the cellular telephone number, the host forwards an incoming call to the communication system on board the aircraft consistent with the primary divert on busy instruction. Applicant's independent claim 19 comprises a particular combination of elements, which is neither taught nor suggested by the prior art.

Claims 20-24 are allowable based on their dependence of independent claim 19.

Claim 37 recites a method for forwarding incoming telephone communications to an aircraft with a structure as defined in the specification (pages 1-18) including receiving a request to divert incoming calls for a telephone number to a communication system on board an aircraft, the request including at least a temporary identification code representing a telephone aboard the aircraft; associating a diversion instruction with the telephone number, the diversion instruction representing an instruction to forward an incoming call for the telephone number to the

Art Unit: 2617

communications system aboard the aircraft; and considering a state of a telephone associated with the telephone number as busy, regardless of an actual state of the telephone; wherein, an incoming telephone call to the telephone number is forwarded, consistent with said considering and in accordance with the diversion instruction, to the communications system on board the aircraft. Applicant's independent claim 37 comprises a particular combination of elements, which is neither taught nor suggested by the prior art.

Claims 38-42 are allowable based on their dependence of independent claim 37.

Claim 43 recites a method for routing incoming telephone traffic through a land-based host network to a telephone device user aboard an aircraft, the telephone device user having an associated telephone number with a structure as defined in the specification (pages 1-18) including receiving, at the host network, a request to register the presence of the telephone device user aboard the aircraft, the request including at least a temporary identification code representing a telephone aboard the aircraft; the host network advising the telephone device user's home network that the telephone device user is within the operating jurisdiction of the host network; associating, at the host network, a primary divert on busy instruction with the telephone number, the divert on busy instruction representing an instruction to divert an incoming call to a communication system on board the aircraft; and considering a current operational state associated with the telephone number as busy, regardless of an actual operational state of the [device] telephone; wherein, upon receipt of an incoming call to the telephone number, the host forwards an incoming call to the communication system on board the aircraft consistent with the

primary divert on busy instruction. Applicant's independent claim 43 comprises a particular combination of elements, which is neither taught nor suggested by the prior art.

Claims 44-48 are allowable based on their dependence of independent claim 19.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

III. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRANDON J. MILLER whose telephone number is (571)272-7869. The examiner can normally be reached on Mon.-Fri. 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

March 10, 2008

/Brandon J Miller/
Examiner, Art Unit 2617

/George Eng/
Supervisory Patent Examiner, Art Unit 2617